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## **Light-Duty Automotive Technology and Fuel Economy Trends: 1975 Through 2005**

### **Appendix I: Data Stratified by Vehicle Type and Drive Type**

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#### *NOTICE*

*This Technical Report does not necessarily represent final EPA decisions or positions.  
It is intended to present technical analysis of issues using data that are currently available.*

*The purpose in the release of such reports is to facilitate an exchange of technical information and to inform the public of technical developments.*

Appendix I

Table I-1

**Characteristics of 1975 to 2005 Front Drive Cars**

MODEL YEAR	SALES (000)	FRAC 55/45	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT/ -MPG	CU-FT/ TON-MPG
			LAB	ADJ CITY	ADJ HWY	55/45											
1975	539	0.053	23.4	18.1	22.9	20.0	2790		147	88	14.8	103	0.704	0.0303	27.6		
1976	561	0.046	24.0	18.9	22.9	20.5	2844		163	95	14.3	105	0.680	0.0319	28.8		
1977	774	0.055	26.2	20.3	25.5	22.3	2706	93.8	142	88	14.4	104	0.692	0.0315	30.6	2264	2876
1978	1075	0.074	26.8	20.9	25.7	22.8	2590	94.4	129	82	14.5	103	0.693	0.0310	30.1	2308	2838
1979	1283	0.092	26.4	20.7	25.1	22.5	2634	94.6	137	84	14.5	104	0.674	0.0312	29.8	2211	2835
1980	2804	0.248	26.9	20.8	26.3	23.0	2645	100.4	138	86	14.4	105	0.652	0.0320	30.7	2363	3087
1981	3235	0.307	28.6	22.2	27.7	24.4	2646	103.0	133	85	14.2	105	0.672	0.0321	32.6	2566	3349
1982	3568	0.367	30.2	23.2	29.7	25.7	2665	101.7	127	83	14.6	104	0.677	0.0310	34.5	2658	3512
1983	3784	0.367	30.3	23.5	29.5	25.9	2682	104.2	129	85	14.4	104	0.681	0.0317	35.0	2751	3641
1984	5737	0.409	29.7	23.0	29.0	25.3	2752	105.4	133	90	14.1	106	0.694	0.0325	35.2	2725	3709
1985	6648	0.460	29.4	22.6	28.9	25.1	2825	106.5	142	97	13.5	108	0.712	0.0344	35.7	2722	3800
1986	7831	0.510	29.9	23.0	29.5	25.5	2844	107.0	140	100	13.5	109	0.730	0.0347	36.5	2769	3909
1987	8267	0.556	29.7	22.8	29.4	25.4	2868	106.2	140	103	13.3	110	0.752	0.0354	36.6	2724	3884
1988	8768	0.573	30.0	23.0	29.7	25.6	2911	106.2	142	107	13.0	111	0.775	0.0364	37.4	2751	3973
1989	8267	0.572	29.3	22.3	29.3	25.0	2980	107.0	147	115	12.6	113	0.803	0.0381	37.4	2706	4000
1990	7455	0.591	28.6	21.8	28.9	24.5	3082	106.7	151	123	12.1	116	0.844	0.0397	37.8	2638	4037
1991	7096	0.564	28.9	22.0	29.1	24.7	3046	106.3	149	124	12.1	116	0.859	0.0402	37.8	2662	4018
1992	6551	0.538	28.4	21.4	29.1	24.3	3120	107.2	157	131	11.7	118	0.868	0.0416	38.1	2645	4085
1993	7195	0.545	29.0	21.9	29.5	24.7	3109	107.6	154	130	11.8	118	0.871	0.0414	38.6	2703	4161
1994	7104	0.503	28.9	21.8	29.6	24.7	3143	107.6	153	133	11.7	119	0.895	0.0417	39.0	2700	4199
1995	7701	0.508	29.2	21.9	30.2	25.0	3155	108.6	154	144	11.0	123	0.956	0.0450	39.6	2752	4297
1996	6829	0.520	29.0	21.7	29.9	24.8	3200	108.7	153	147	11.0	123	0.974	0.0454	39.7	2723	4320
1997	7213	0.499	29.1	21.8	30.1	24.9	3197	108.3	153	149	10.9	124	0.985	0.0459	39.9	2725	4325
1998	6935	0.480	29.2	21.8	30.2	24.9	3243	108.9	154	151	10.8	125	0.998	0.0462	40.6	2743	4420
1999	7305	0.480	28.7	21.5	29.8	24.6	3307	109.2	157	156	10.7	126	1.009	0.0467	40.7	2708	4455
2000	7752	0.468	28.8	21.6	29.7	24.6	3313	110.3	156	158	10.6	126	1.030	0.0473	40.9	2735	4509
2001	7073	0.453	29.2	22.0	30.1	25.0	3312	110.2	155	158	10.6	127	1.034	0.0474	41.6	2787	4584
2002	7052	0.437	29.5	22.2	30.1	25.2	3320	110.9	157	163	10.4	128	1.056	0.0486	42.0	2822	4657
2003	6495	0.412	30.1	22.7	30.8	25.7	3320	111.0	154	163	10.3	128	1.077	0.0488	43.0	2890	4772
2004	6626	0.416	30.1	22.7	31.0	25.8	3355	112.4	158	169	10.1	130	1.088	0.0500	43.6	2939	4899
2005	6717	0.392	30.4	22.9	31.1	26.0	3366	112.0	157	170	10.2	130	1.100	0.0499	44.1	2952	4937

Percent of Front Drive Cars:

MODEL YEAR	TRANSMISSION MANUAL	FUEL LOCK	METERING FI	TBI	CARB	DSL	VEHICLE SIZE			NUMBER OF VALVES				
							SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE	
1975	66.8	0.0	17.6	17.6	0.0	82.4	0.0	87.4	8.3	4.3				
1976	59.7	0.0	18.9	18.9	0.0	81.1	0.0	86.9	8.8	4.4				
1977	68.2	0.0	31.3	31.3	0.0	65.9	2.8	89.5	6.1	4.4				
1978	70.4	0.0	31.0	31.0	0.0	65.3	3.6	93.6	4.2	2.2				
1979	67.4	0.0	19.6	19.6	0.0	74.7	5.6	87.0	13.0	0.0				
1980	48.8	1.0	11.0	9.5	1.6	82.2	6.8	67.8	32.2	0.0				
1981	46.7	0.0	7.3	5.4	1.8	87.3	5.4	68.1	31.9	0.0				
1982	41.0	32.2	18.9	5.0	13.9	78.4	2.7	71.0	29.0	0.0				
1983	37.4	38.9	30.9	5.8	25.1	67.8	1.3	68.3	31.7	0.0				
1984	30.3	42.4	36.5	8.6	27.9	61.9	1.6	69.0	31.0	0.0				
1985	26.3	48.6	54.5	21.0	33.5	44.8	0.7	63.3	29.4	7.2				
1986	27.1	52.4	67.3	33.1	34.2	32.4	0.3	62.5	28.5	9.1	94.3	4.5	1.3	0.0
1987	26.2	56.5	74.8	38.0	36.7	25.2	0.0	66.3	24.7	9.0	82.1	11.7	6.1	0.0
1988	25.5	64.6	83.7	48.5	35.1	16.3	0.0	67.5	23.8	8.7	76.9	11.1	12.0	0.0
1989	21.7	68.6	89.4	58.0	31.4	10.6	0.0	61.0	29.3	9.7	73.1	12.9	14.0	0.0
1990	19.7	73.1	98.8	75.2	23.6	1.2	0.0	61.1	28.8	10.1	65.6	7.6	26.7	0.0
1991	21.0	73.7	99.9	77.5	22.3	0.0	0.1	64.1	27.3	8.5	64.2	7.3	28.5	0.0
1992	18.5	75.4	100.0	90.3	9.7	0.0	0.0	61.6	27.3	11.1	66.6	4.6	28.8	0.0
1993	18.7	76.3	100.0	91.9	8.1	0.0	0.0	60.4	29.7	9.9	63.1	3.1	33.8	0.0
1994	17.4	78.8	100.0	93.9	6.1	0.0	0.0	61.3	26.3	12.4	56.3	2.2	41.6	0.0
1995	16.8	82.4	100.0	98.6	1.4	0.0	0.0	60.4	27.5	12.1	45.1	1.3	53.6	0.0
1996	14.6	84.4	99.9	98.7	1.3	0.0	0.1	56.2	33.3	10.6	39.1	1.1	59.8	0.0
1997	13.1	86.1	100.0	99.0	0.9	0.0	0.0	56.9	31.1	12.0	39.5	1.0	59.5	0.0
1998	11.5	88.1	99.8	99.7	0.2	0.0	0.2	48.8	41.5	9.8	35.6	0.9	63.0	0.5
1999	10.0	89.4	99.9	99.8	0.1	0.0	0.1	47.4	42.0	10.5	35.4	1.1	62.3	1.2
2000	9.7	89.3	99.7	99.7	0.0	0.0	0.3	46.5	36.1	17.4	31.8	0.9	65.8	1.4
2001	9.9	88.8	99.7	99.7	0.0	0.0	0.3	50.1	34.0	15.9	32.3	0.4	65.2	2.1
2002	9.5	89.8	99.5	99.5	0.0	0.0	0.5	45.7	38.9	15.4	30.4	0.4	67.0	2.3
2003	10.1	88.8	99.5	99.5	0.0	0.0	0.5	48.8	36.3	15.0	27.4	0.0	69.8	2.8
2004	12.1	85.6	99.6	99.6	0.0	0.0	0.4	41.7	42.9	15.3	22.3	0.0	75.7	2.0
2005	12.7	83.1	99.6	99.6	0.0	0.0	0.4	43.8	41.6	14.6	20.3	0.0	78.0	1.7

Appendix I

Table I-2

**Characteristics of 1975 to 2005 Rear Drive Cars**

MODEL YEAR	SALES (000)	FRAC 55/45	<---- FUEL ECONOMY ---->			WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT/ -MPG	CU-FT/ TON-MPG	
			LAB CITY	ADJ HWY	ADJ 55/45			CID	HP								
1975	7698	0.753	15.4	12.0	14.8	13.2	4146	298	139	14.1	112	0.502	0.0333	27.5			
1976	9161	0.743	17.2	13.5	16.3	14.6	4133	294	136	14.4	111	0.491	0.0325	30.3			
1977	10526	0.745	17.9	14.1	17.0	15.3	4034	111.6	289	136	12	0.504	0.0336	31.0	1744	3464	
1978	10100	0.699	19.4	15.1	18.6	16.5	3694	110.6	264	129	13.6	112	0.522	0.0345	30.6	1865	3399
1979	9474	0.682	19.6	15.4	18.6	16.7	3604	110.8	253	124	13.7	111	0.527	0.0342	30.2	1882	3366
1980	6553	0.580	22.3	17.4	21.4	19.0	3296	105.9	209	107	14.2	108	0.554	0.0323	31.5	2043	3359
1981	5436	0.515	23.5	18.3	22.6	20.0	3333	108.6	211	107	14.4	107	0.548	0.0320	33.5	2203	3670
1982	4188	0.430	23.3	18.0	22.8	19.9	3384	109.9	216	112	14.1	109	0.553	0.0330	33.9	2217	3762
1983	3973	0.386	22.5	17.2	22.4	19.2	3547	113.6	236	123	13.6	111	0.549	0.0346	34.3	2200	3916
1984	4830	0.345	23.1	17.6	23.1	19.7	3514	110.1	234	125	13.3	113	0.569	0.0356	34.9	2190	3857
1985	3918	0.271	23.5	17.9	23.6	20.1	3576	110.6	240	135	12.7	116	0.600	0.0378	36.0	2226	4010
1986	3068	0.200	23.8	18.1	24.1	20.4	3547	107.7	239	139	12.3	117	0.625	0.0393	36.2	2197	3931
1987	2347	0.158	23.5	17.7	24.1	20.1	3608	107.7	241	147	12.0	120	0.660	0.0409	36.4	2176	3960
1988	1879	0.123	23.5	17.7	24.2	20.1	3689	110.8	248	157	11.6	122	0.675	0.0428	37.2	2241	4177
1989	1654	0.114	23.6	17.8	24.3	20.2	3708	111.7	244	153	11.9	121	0.675	0.0415	37.6	2267	4248
1990	1268	0.101	23.6	17.8	24.2	20.2	3724	108.5	235	159	11.7	123	0.732	0.0429	37.7	2192	4141
1991	1310	0.104	24.0	18.0	24.9	20.6	3726	109.3	240	177	10.7	129	0.783	0.0475	38.4	2247	4250
1992	1467	0.121	24.6	18.5	25.3	21.0	3760	113.6	228	179	10.7	129	0.834	0.0475	39.6	2396	4546
1993	1161	0.088	24.3	18.1	25.2	20.8	3814	113.1	243	189	10.5	132	0.817	0.0497	39.6	2352	4534
1994	1274	0.090	24.0	17.9	25.2	20.6	3840	111.2	252	198	10.0	135	0.819	0.0516	39.5	2291	4440
1995	1586	0.105	24.6	18.3	25.8	21.1	3784	109.0	230	194	10.1	134	0.884	0.0509	40.0	2306	4386
1996	943	0.072	24.3	18.0	25.9	20.8	3862	110.5	257	207	9.7	137	0.828	0.0535	40.2	2295	4484
1997	977	0.068	24.3	18.0	25.8	20.8	3827	109.6	244	209	9.5	139	0.882	0.0547	39.9	2279	4401
1998	856	0.059	24.5	18.2	25.7	21.0	3771	104.0	242	218	9.1	142	0.924	0.0577	39.7	2188	4157
1999	888	0.058	24.5	18.2	25.7	20.9	3799	105.7	242	226	8.8	145	0.968	0.0596	39.9	2217	4248
2000	1186	0.072	25.0	18.6	26.0	21.4	3699	103.5	229	228	8.7	146	1.020	0.0610	39.6	2228	4137
2001	1063	0.068	24.8	18.5	25.9	21.2	3717	101.4	228	226	8.7	146	1.031	0.0609	39.6	2168	4057
2002	935	0.058	24.4	18.2	25.4	20.9	3784	98.5	234	237	8.5	149	1.050	0.0628	39.6	2065	3944
2003	1152	0.073	24.5	18.3	25.5	20.9	3872	100.8	230	245	8.4	150	1.096	0.0636	40.6	2115	4156
2004	1081	0.068	24.3	18.0	25.5	20.8	3889	101.4	232	245	8.5	150	1.094	0.0635	40.5	2110	4159
2005	1361	0.079	24.5	18.2	25.6	20.9	3962	108.0	238	254	8.4	152	1.104	0.0645	41.6	2277	4569

Percent of Rear Drive Cars:

MODEL YEAR	TRANSMISSION MANUAL	FUEL LOCK	METERING FI	TBI	CARB	DSL	VEHICLE SIZE			NUMBER OF VALVES				
							SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE	
1975	16.6	0.0	4.3	4.3	0.0	95.5	0.3	53.2	24.4	22.4	97.5	0.0	2.5	0.0
1976	14.5	0.0	2.2	2.2	0.0	97.5	0.3	53.5	26.2	20.3	96.0	0.0	4.0	0.0
1977	13.0	0.0	2.2	2.2	0.0	97.5	0.3	49.2	25.9	24.9	95.5	1.5	3.0	0.0
1978	14.9	7.4	2.3	2.3	0.0	97.1	0.6	39.5	37.6	23.0	94.1	0.0	2.0	0.0
1979	15.9	9.2	2.7	2.7	0.0	95.6	1.6	37.6	37.2	25.2	93.7	0.0	2.0	0.0
1980	24.4	23.4	5.2	4.9	0.3	91.4	3.5	48.0	35.7	16.2	93.3	0.0	2.0	0.0
1981	20.3	53.3	9.8	6.6	3.1	83.9	6.3	41.0	39.4	19.6	92.9	0.0	2.0	0.0
1982	19.5	68.0	15.6	9.2	6.4	78.0	6.4	43.6	33.1	23.4	92.5	0.0	2.0	0.0
1983	14.3	76.4	27.6	13.5	14.1	69.5	2.9	35.7	33.9	30.4	92.1	0.0	2.0	0.0
1984	16.1	77.7	43.6	22.8	20.8	54.6	1.8	42.7	28.0	29.2	91.7	0.0	2.0	0.0
1985	15.1	77.0	54.2	22.9	31.3	44.5	1.3	40.8	29.2	30.0	91.3	0.0	2.0	0.0
1986	17.0	74.4	60.9	46.0	14.9	38.8	0.3	50.6	27.2	22.1	90.9	0.0	2.5	0.0
1987	18.3	73.0	68.8	58.9	9.8	30.2	1.0	52.0	24.0	24.1	90.5	0.0	4.0	0.0
1988	16.1	76.2	84.2	78.8	5.3	15.8	0.0	51.1	16.2	32.7	89.5	1.5	3.0	0.0
1989	14.9	75.9	94.1	83.3	10.7	5.9	0.0	43.4	23.1	33.5	89.1	5.4	5.4	0.0
1990	17.5	73.3	97.3	90.5	6.8	2.6	0.2	41.1	29.8	29.1	88.7	5.1	17.0	0.0
1991	15.8	75.2	99.5	79.5	20.1	0.0	0.5	44.0	22.4	33.7	88.3	0.3	22.1	0.0
1992	10.6	83.0	99.7	85.7	14.0	0.0	0.3	31.3	31.8	36.9	87.9	2.0	31.8	0.0
1993	11.4	81.8	100.0	89.4	10.6	0.0	0.0	34.4	30.5	35.1	87.5	0.0	25.5	0.0
1994	12.6	82.1	100.0	100.0	0.0	0.0	0.0	42.1	25.8	32.1	87.1	0.8	25.3	0.0
1995	12.9	80.5	99.6	99.6	0.0	0.0	0.4	42.4	33.2	24.3	86.7	0.0	41.9	0.0
1996	14.9	79.6	99.7	99.7	0.0	0.0	0.3	42.2	20.3	37.5	86.3	0.0	26.0	0.0
1997	13.9	85.9	99.7	99.7	0.0	0.0	0.3	43.3	22.9	33.8	85.9	0.0	38.2	0.1
1998	15.7	84.0	99.6	99.6	0.0	0.0	0.4	57.1	15.4	27.5	85.5	6.3	36.4	0.1
1999	15.9	83.3	99.5	99.5	0.0	0.0	0.5	52.1	15.1	32.8	85.1	10.9	32.9	0.1
2000	18.3	79.3	100.0	99.6	0.4	0.0	0.0	56.3	16.9	26.8	84.7	0.7	44.7	0.0
2001	16.8	82.8	100.0	100.0	0.0	0.0	0.0	58.9	13.8	27.3	84.3	12.8	40.7	0.1
2002	18.3	81.2	100.0	100.0	0.0	0.0	0.0	67.1	15.0	17.9	83.9	14.3	47.0	0.1
2003	15.5	84.3	100.0	100.0	0.0	0.0	0.0	58.5	16.7	24.8	83.5	17.6	50.1	0.1
2004	19.7	80.3	100.0	100.0	0.0	0.0	0.0	54.7	18.1	27.2	83.1	13.0	50.3	0.1
2005	12.7	87.1	99.6	99.6	0.0	0.0	0.4	42.6	20.3	37.1	82.7	13.7	51.7	0.1

Appendix I

Table I-3

**Characteristics of 1975 to 2005 Four Wheel Drive Cars**

MODEL YEAR	SALES (000)	FRAC 55/45	<---- FUEL ECONOMY ---->			WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT -MPG	CU-FT- TON-MPG	
			LAB CITY	ADJ HWY	ADJ 55/45												
1979	37	0.003	27.6	21.7	26.1	23.5	2500	100.5	97	67	16.0	98	0.691	0.0268	29.4	2360	2950
1980	85	0.008	20.9	16.7	19.2	17.8	3149	100.8	173	80	16.8	99	0.541	0.0257	28.0	1880	2819
1981	61	0.006	24.3	19.4	22.5	20.7	2929	102.7	157	83	15.4	101	0.576	0.0284	30.3	2224	3117
1982	63	0.007	25.3	20.1	23.4	21.5	3122	103.1	165	85	16.0	101	0.564	0.0271	33.4	2266	3439
1983	245	0.024	31.6	25.3	29.0	26.8	2689	98.9	118	75	15.7	100	0.675	0.0279	36.3	2722	3586
1984	107	0.008	27.6	21.9	25.9	23.5	2913	106.6	135	80	16.0	100	0.643	0.0274	34.4	2605	3672
1985	224	0.016	32.5	25.7	30.5	27.7	2584	115.8	101	71	15.9	99	0.703	0.0275	36.1	3259	4181
1986	116	0.008	26.9	21.2	25.4	22.9	2929	113.2	120	92	14.5	105	0.789	0.0312	33.6	2628	3808
1987	118	0.008	26.8	21.2	25.3	22.8	2928	114.7	115	92	14.5	105	0.811	0.0313	33.5	2653	3851
1988	89	0.006	28.8	22.8	26.8	24.5	2827	109.2	112	98	13.4	109	0.890	0.0346	34.6	2712	3801
1989	96	0.007	28.9	22.8	27.1	24.6	2845	95.3	115	107	12.6	112	0.948	0.0378	35.3	2344	3346
1990	86	0.007	26.8	20.9	25.9	22.9	3234	115.7	125	119	12.8	113	0.959	0.0367	37.0	2665	4291
1991	118	0.009	26.6	20.6	25.9	22.7	3289	109.5	130	145	11.6	121	1.104	0.0433	37.3	2512	4097
1992	90	0.007	25.9	20.0	25.2	22.0	3492	109.1	140	191	9.8	137	1.400	0.0552	38.5	2442	4209
1993	100	0.008	28.0	21.7	27.2	23.9	3216	111.2	127	130	12.1	117	1.008	0.0400	38.3	2667	4283
1994	36	0.003	26.2	20.2	25.6	22.3	3442	117.3	140	140	12.0	118	0.991	0.0404	38.5	2642	4530
1995	109	0.007	27.7	21.3	27.4	23.6	3310	115.4	135	143	11.3	121	1.056	0.0430	39.1	2738	4522
1996	118	0.009	26.7	20.4	26.6	22.8	3397	118.6	145	153	11.0	124	1.045	0.0449	38.8	2728	4627
1997	144	0.010	27.3	20.8	27.3	23.3	3397	119.3	147	160	10.6	126	1.086	0.0470	39.6	2801	4746
1998	179	0.012	26.5	20.2	26.6	22.6	3525	120.8	149	169	10.4	128	1.136	0.0479	39.9	2749	4833
1999	186	0.012	26.2	19.8	26.7	22.4	3558	119.8	149	171	10.3	129	1.152	0.0481	39.9	2702	4794
2000	190	0.011	26.3	20.1	26.2	22.5	3603	119.0	153	181	10.0	132	1.191	0.0501	40.5	2694	4836
2001	273	0.017	25.2	19.2	25.4	21.6	3831	115.2	157	200	9.8	136	1.292	0.0523	41.5	2507	4819
2002	318	0.020	25.8	19.5	26.1	22.0	3828	110.6	155	201	9.7	136	1.320	0.0528	42.3	2462	4710
2003	305	0.019	25.5	19.3	25.8	21.8	3867	102.7	166	201	9.9	135	1.241	0.0518	42.3	2325	4406
2004	440	0.028	25.7	19.5	26.0	22.0	3876	119.8	164	202	9.9	135	1.239	0.0518	42.6	2665	5139
2005	537	0.031	25.3	19.1	25.8	21.6	3951	117.7	175	224	9.3	142	1.312	0.0564	42.9	2570	5060

Percent of Four Wheel Drive Cars:

MODEL YEAR	TRANSMISSION MANUAL	LOCK	FUEL METERING			VEHICLE SIZE SMALL	MID	LARGE	NUMBER OF VALVES			
			FI	PORT	TBI	CARB	DSL		TWO	THREE	FOUR	FIVE
1979	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0
1980	53.5	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0
1981	73.3	26.7	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0
1982	67.5	32.5	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0
1983	55.8	14.5	1.0	1.0	0.0	99.0	0.0	0.0	100.0	0.0	0.0	0.0
1984	59.2	35.4	7.8	7.8	0.0	92.2	0.0	0.0	100.0	0.0	0.0	0.0
1985	54.0	36.7	9.8	9.8	0.0	90.2	0.0	0.0	93.1	6.9	0.0	0.0
1986	72.4	0.0	34.7	34.7	0.0	65.3	0.0	0.0	90.3	9.7	0.0	100.0
1987	69.7	0.5	34.5	27.6	6.8	65.5	0.0	0.0	94.9	5.1	0.0	94.9
1988	76.8	6.2	79.5	35.2	44.3	20.5	0.0	0.0	95.3	4.7	0.0	75.2
1989	60.9	15.4	99.1	78.1	21.0	0.9	0.0	0.0	77.1	22.9	0.0	58.2
1990	45.8	45.1	100.0	82.1	17.9	0.0	0.0	0.0	95.0	5.0	0.0	28.6
1991	42.4	45.0	100.0	87.5	12.5	0.0	0.0	0.0	97.3	2.7	0.0	15.1
1992	49.3	38.0	100.0	100.0	0.0	0.0	0.0	0.0	97.7	2.3	0.0	37.7
1993	32.6	63.9	100.0	93.4	6.6	0.0	0.0	0.0	93.8	6.2	0.0	52.4
1994	29.2	61.6	100.0	100.0	0.0	0.0	0.0	0.0	98.4	1.6	0.0	95.2
1995	30.7	69.3	100.0	100.0	0.0	0.0	0.0	0.0	55.1	44.9	0.0	5.8
1996	32.5	67.5	100.0	100.0	0.0	0.0	0.0	0.0	44.4	55.6	0.0	15.4
1997	27.9	72.1	100.0	100.0	0.0	0.0	0.0	0.0	45.3	54.7	0.0	11.3
1998	24.3	75.7	100.0	100.0	0.0	0.0	0.0	0.0	36.7	63.3	0.0	1.2
1999	22.7	77.1	100.0	100.0	0.0	0.0	0.0	0.0	36.7	63.3	0.0	1.2
2000	25.4	74.4	100.0	100.0	0.0	0.0	0.0	0.0	32.0	67.6	0.3	0.0
2001	27.7	71.9	100.0	100.0	0.0	0.0	0.0	0.0	39.9	59.4	0.7	0.0
2002	27.6	72.2	100.0	100.0	0.0	0.0	0.0	0.0	59.5	40.3	0.2	0.0
2003	17.2	82.8	100.0	100.0	0.0	0.0	0.0	0.0	64.4	34.6	1.0	13.1
2004	24.8	75.2	100.0	100.0	0.0	0.0	0.0	0.0	53.5	34.9	11.7	0.0
2005	18.2	76.5	100.0	100.0	0.0	0.0	0.0	0.0	50.7	32.7	16.6	2.1
												5.8
												78.0
												14.1

Appendix I

**Table I-4      Characteristics of 1975 to 2005 Front Drive Vans**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1981	1	0.000	17.9	13.8	17.5	15.2	4115	318	135	13.7	111	0.425	0.0329	31.3
1983	0	0.000	39.0	33.5	32.3	32.9	2250	97	52	18.3	93	0.536	0.0231	37.2
1984	151	0.011	24.7	19.6	23.1	21.0	3340	143	97	15.3	104	0.680	0.0293	35.3
1985	260	0.018	23.7	18.9	21.9	20.1	3422	148	100	15.2	104	0.681	0.0294	34.5
1986	255	0.017	24.4	19.4	22.9	20.8	3442	150	100	15.4	104	0.669	0.0291	35.8
1987	307	0.021	24.6	19.3	23.3	20.9	3503	163	122	13.6	111	0.741	0.0347	36.6
1988	411	0.027	24.1	18.6	23.4	20.5	3714	173	133	13.2	114	0.765	0.0359	38.1
1989	439	0.030	24.1	18.8	23.1	20.5	3724	168	131	13.5	113	0.776	0.0350	38.2
1990	590	0.047	23.9	18.4	23.4	20.4	3828	184	135	13.3	113	0.733	0.0354	39.0
1991	395	0.031	23.8	18.5	23.0	20.3	3919	186	136	13.5	113	0.727	0.0346	39.7
1992	554	0.046	23.8	18.3	23.4	20.3	3894	187	138	13.2	114	0.742	0.0355	39.5
1993	718	0.054	23.8	18.2	23.6	20.3	3838	188	143	12.7	116	0.763	0.0373	38.9
1994	741	0.053	23.5	18.0	23.3	20.1	3902	193	145	12.7	116	0.755	0.0373	39.2
1995	1019	0.067	23.5	17.8	23.8	20.1	3889	206	146	12.6	117	0.722	0.0375	39.1
1996	1040	0.079	23.5	17.8	23.7	20.1	4061	202	166	11.8	122	0.824	0.0409	40.7
1997	819	0.057	23.5	17.8	23.8	20.1	4048	195	161	12.0	120	0.832	0.0400	40.7
1998	1166	0.081	23.8	18.0	24.3	20.4	4025	201	173	11.3	124	0.864	0.0431	41.0
1999	1112	0.073	23.5	17.7	24.2	20.1	4147	204	175	11.4	124	0.863	0.0423	41.8
2000	1363	0.082	23.8	17.9	24.4	20.4	4168	202	178	11.4	124	0.888	0.0427	42.4
2001	854	0.055	24.3	18.3	24.8	20.8	4242	201	189	10.9	128	0.946	0.0447	44.1
2002	1048	0.065	24.0	18.1	24.5	20.5	4318	207	197	10.8	129	0.959	0.0458	44.4
2003	1029	0.065	24.4	18.4	25.0	20.8	4293	209	199	10.6	130	0.955	0.0464	44.8
2004	929	0.058	24.1	18.0	25.0	20.6	4391	213	204	10.6	130	0.959	0.0464	45.3
2005	1418	0.083	24.4	18.3	25.3	20.9	4384	212	207	10.5	132	0.981	0.0473	45.8

Percent of Front Drive Vans:

MODEL YEAR	TRANSMISSION MANUAL	FUEL LOCK	METERING				VEHICLE SIZE SMALL	MID	LARGE	NUMBER OF VALVES				
			FI	PORT	TBI	CARB	DSL			TWO	THREE	FOUR	FIVE	
1981	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	99.7	0.0	0.3	0.0
1983	33.3	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	96.7	0.0	3.3	0.0
1984	25.1	5.6	0.0	0.0	0.0	98.7	1.3	11.0	89.0	0.0	94.4	0.0	5.6	0.0
1985	12.4	4.4	0.1	0.1	0.0	99.9	0.0	6.7	93.3	0.0	92.5	0.0	7.5	0.0
1986	8.7	6.1	0.1	0.0	0.1	99.9	0.0	9.0	91.0	0.0	88.0	0.0	12.0	0.0
1987	5.5	54.1	51.8	51.6	0.2	48.2	0.0	8.4	91.6	0.0	83.6	0.0	16.4	0.0
1988	3.0	78.4	100.0	79.2	20.8	0.0	0.0	2.9	97.1	0.0	80.0	0.0	20.0	0.0
1989	2.6	58.8	100.0	72.7	27.3	0.0	0.0	2.2	97.8	0.0	77.0	0.0	18.0	0.0
1990	1.9	96.7	100.0	67.9	32.1	0.0	0.0	2.9	97.1	0.0	74.0	0.0	16.0	0.0
1991	0.2	99.8	100.0	70.5	29.5	0.0	0.0	1.6	98.4	0.0	71.0	0.0	14.0	0.0
1992	2.4	97.6	100.0	82.0	18.0	0.0	0.0	6.1	93.9	0.0	68.0	0.0	12.0	0.0
1993	1.6	98.4	100.0	88.8	11.2	0.0	0.0	1.7	98.3	0.0	65.0	0.0	10.0	0.0
1994	0.6	99.4	100.0	90.8	9.2	0.0	0.0	1.0	99.0	0.0	62.0	0.0	8.0	0.0
1995	0.1	99.9	100.0	93.2	6.8	0.0	0.0	0.2	99.7	0.2	59.0	0.0	6.0	0.0
1996	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.1	99.9	0.0	56.0	0.0	5.0	0.0
1997	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	99.8	0.2	53.0	0.0	4.0	0.0
1998	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	50.0	0.0	3.0	0.0
1999	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	99.9	0.1	47.0	0.0	2.0	0.0
2000	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	99.9	0.1	44.0	0.0	1.0	0.0
2001	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	41.0	0.0	0.8	0.0
2002	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	99.9	0.1	38.0	0.0	0.6	0.0
2003	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	99.6	0.4	35.0	0.0	0.4	0.0
2004	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	32.0	0.0	0.2	0.0
2005	0.0	96.2	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	30.0	0.0	0.1	0.0

Appendix I

**Table I-5 Characteristics of 1975 to 2005 Rear Drive Vans**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1975	457	0.045	13.1	10.6	11.9	11.1	4196	317	143	13.9	113	0.448	0.0341	23.8
1976	502	0.041	13.9	11.1	12.8	11.8	4200	324	146	13.7	114	0.447	0.0347	25.2
1977	514	0.036	14.7	11.9	13.3	12.5	4252	332	152	13.3	116	0.458	0.0359	26.9
1978	625	0.043	14.2	11.6	12.7	12.1	4249	329	149	13.4	115	0.453	0.0351	26.1
1979	480	0.035	13.5	11.1	12.1	11.5	4541	322	144	14.6	111	0.451	0.0317	26.5
1980	242	0.021	16.6	13.3	15.4	14.1	4353	288	130	15.2	108	0.459	0.0299	31.0
1981	244	0.023	17.5	14.0	16.0	14.8	4325	284	129	15.3	108	0.458	0.0298	32.3
1982	310	0.032	17.3	13.9	15.9	14.7	4342	287	132	15.2	109	0.463	0.0303	32.3
1983	382	0.037	17.7	14.1	16.5	15.1	4418	295	136	15.0	109	0.466	0.0307	33.7
1984	525	0.037	17.7	14.0	16.6	15.1	4286	280	134	14.8	110	0.497	0.0311	32.9
1985	593	0.041	18.0	14.3	16.8	15.3	4222	275	142	14.0	112	0.533	0.0335	32.9
1986	776	0.051	19.5	15.4	18.5	16.6	4198	255	137	14.2	111	0.559	0.0327	35.2
1987	786	0.053	19.6	15.3	18.8	16.7	4169	253	151	13.1	116	0.622	0.0362	35.1
1988	713	0.047	19.8	15.3	19.2	16.8	4256	262	155	12.9	117	0.615	0.0366	36.0
1989	829	0.057	19.8	15.3	19.3	16.9	4239	257	155	13.0	117	0.627	0.0366	36.1
1990	589	0.047	19.3	14.9	18.9	16.4	4369	270	162	12.8	118	0.619	0.0372	36.2
1991	526	0.042	20.1	15.4	19.8	17.1	4305	249	157	12.9	117	0.664	0.0366	37.1
1992	600	0.049	19.8	15.3	19.5	16.9	4360	256	163	12.7	118	0.664	0.0375	37.1
1993	658	0.050	20.2	15.5	20.1	17.3	4350	249	166	12.5	119	0.692	0.0383	37.7
1994	585	0.041	19.5	15.0	19.2	16.6	4439	268	176	12.1	122	0.669	0.0397	37.0
1995	492	0.033	19.0	14.6	18.7	16.2	4535	289	186	11.7	124	0.660	0.0414	36.9
1996	336	0.026	19.2	14.7	19.0	16.4	4560	273	185	11.9	123	0.691	0.0406	37.5
1997	387	0.027	19.8	15.1	19.6	16.9	4579	269	200	11.2	128	0.748	0.0436	38.7
1998	274	0.019	19.5	14.9	19.4	16.6	4759	280	209	11.1	129	0.750	0.0441	39.6
1999	311	0.020	18.9	14.5	18.8	16.1	4822	285	208	11.3	128	0.731	0.0431	38.8
2000	282	0.017	19.1	14.7	18.8	16.3	4718	283	208	11.1	129	0.735	0.0440	38.5
2001	272	0.017	18.9	14.4	18.9	16.2	4958	290	225	10.8	132	0.779	0.0454	40.1
2002	157	0.010	18.7	14.4	18.3	15.9	4807	284	213	11.0	130	0.752	0.0445	38.4
2003	141	0.009	19.4	14.9	18.9	16.5	4930	283	218	11.1	130	0.767	0.0441	40.8
2004	152	0.010	19.4	15.0	19.1	16.6	5225	297	242	10.7	134	0.808	0.0461	43.3
2005	120	0.007	19.7	15.1	19.6	16.8	5155	290	234	10.9	132	0.803	0.0454	43.2

Percent of Rear Drive Vans:

MODEL YEAR	TRANSMISSION						FUEL METERING			VEHICLE SIZE			NUMBER OF VALVES			
	MANUAL	LOCK	FI	PORT	TBI	CARB	DSL	SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE		
1975	23.3	0.0	0.2	0.0	0.0	99.8	0.0	0.4	66.1	33.6						
1976	20.5	0.0	0.3	0.0	0.0	99.7	0.0	0.3	61.4	38.3						
1977	14.3	0.0	0.4	0.0	0.0	99.6	0.0	0.4	61.0	38.6						
1978	13.0	0.0	0.4	0.0	0.0	99.6	0.0	0.4	63.8	35.8						
1979	14.8	6.8	1.8	0.0	0.0	98.2	0.0	1.8	65.1	33.1						
1980	26.0	39.0	6.5	0.0	0.0	93.5	0.0	6.5	53.8	39.7						
1981	21.7	46.8	4.6	0.0	0.0	95.4	0.0	4.6	56.1	39.3						
1982	15.7	45.8	3.0	0.0	0.0	95.2	1.8	4.8	58.0	37.2						
1983	12.0	59.4	3.5	0.0	0.0	92.2	4.4	3.6	60.2	36.2						
1984	12.7	57.1	12.6	0.0	0.0	86.2	1.2	12.6	54.3	33.1						
1985	8.4	66.5	13.3	0.0	0.0	86.2	0.4	12.3	60.3	27.4						
1986	6.9	78.8	51.2	29.4	21.9	48.3	0.5	8.5	70.9	20.6						
1987	5.1	74.1	85.7	43.0	42.8	14.2	0.1	10.0	72.2	17.8						
1988	3.1	79.6	99.5	43.5	56.0	0.4	0.2	4.9	75.9	19.2						
1989	2.5	86.3	99.9	49.9	50.0	0.0	0.1	2.2	80.7	17.1						
1990	1.0	90.4	99.9	44.4	55.4	0.0	0.1	1.1	80.6	18.2						
1991	1.5	94.3	99.9	53.1	46.7	0.0	0.1	0.8	84.8	14.4						
1992	0.7	95.2	99.9	60.3	39.6	0.0	0.1	0.0	84.5	15.5						
1993	0.8	95.6	100.0	66.3	33.7	0.0	0.0	0.0	83.8	16.2						
1994	0.3	94.7	100.0	66.6	33.4	0.0	0.0	0.0	80.9	19.1	97.4	0.2	2.4	0.0		
1995	0.0	94.4	100.0	71.6	28.4	0.0	0.0	0.0	79.2	20.8	96.7	0.0	3.3	0.0		
1996	0.0	93.2	100.0	100.0	0.0	0.0	0.0	0.0	67.4	32.6	94.7	3.2	2.1	0.0		
1997	0.0	98.6	100.0	100.0	0.0	0.0	0.0	0.0	64.4	35.6	96.9	2.2	0.9	0.0		
1998	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	51.8	48.2	97.7	0.0	2.3	0.0		
1999	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	45.4	54.6	100.0	0.0	0.0	0.0		
2000	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	40.5	59.5	100.0	0.0	0.0	0.0		
2001	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	19.8	80.2	100.0	0.0	0.0	0.0		
2002	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	29.3	70.7	99.9	0.0	0.0	0.0		
2003	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	29.4	70.6	100.0	0.0	0.0	0.0		
2004	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	18.3	81.7	100.0	0.0	0.0	0.0		
2005	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	28.6	71.4	100.0	0.0	0.0	0.0		

Appendix I

**Table I-6 Characteristics of 1975 to 2005 Four Wheel Drive Vans**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	CITY 55/45	ADJ CITY	ADJ HWY		CID	HP					
1985	3	0.000	25.0	19.2	24.8	21.4	3000	122	88	14.9	103	0.721	0.0293	32.0
1986	13	0.001	25.1	19.3	24.9	21.4	3000	122	88	14.9	103	0.721	0.0293	32.1
1987	21	0.001	24.2	19.3	22.6	20.6	3459	128	94	15.8	102	0.739	0.0276	35.8
1988	9	0.001	26.2	20.3	25.4	22.3	3378	125	97	15.2	104	0.777	0.0289	37.6
1989	9	0.001	23.4	18.3	22.3	19.9	3567	135	106	15.1	105	0.781	0.0299	35.6
1990	83	0.007	20.1	15.6	19.5	17.1	4050	202	151	12.7	117	0.765	0.0375	34.7
1991	113	0.009	20.6	15.9	20.0	17.6	4076	200	152	12.6	117	0.778	0.0374	35.8
1992	67	0.006	20.3	15.7	19.8	17.3	4409	212	161	12.9	117	0.774	0.0366	38.1
1993	65	0.005	20.3	15.6	20.1	17.3	4571	229	174	12.5	120	0.765	0.0381	39.6
1994	91	0.006	20.7	15.8	20.5	17.6	4408	219	169	12.4	120	0.781	0.0383	38.8
1995	150	0.010	21.7	16.6	21.7	18.6	4209	208	159	12.5	118	0.775	0.0378	39.0
1996	33	0.003	20.0	15.3	19.8	17.1	4727	244	177	12.6	120	0.735	0.0375	40.3
1997	59	0.004	20.0	15.3	19.9	17.0	4693	243	179	12.4	120	0.741	0.0380	40.0
1998	48	0.003	20.2	15.4	20.2	17.3	4713	238	180	12.4	121	0.762	0.0382	40.7
1999	40	0.003	20.4	15.5	20.4	17.4	4747	250	186	12.1	122	0.745	0.0393	41.3
2000	46	0.003	20.5	15.7	20.3	17.5	4764	252	181	12.4	120	0.717	0.0380	41.7
2001	107	0.007	17.3	13.1	17.5	14.8	5614	300	241	11.3	130	0.805	0.0428	41.7
2002	38	0.002	19.8	15.0	20.0	16.9	4772	240	195	11.7	125	0.824	0.0411	41.1
2003	62	0.004	20.7	15.7	20.8	17.7	4839	239	202	11.6	126	0.854	0.0416	43.2
2004	30	0.002	19.8	15.2	19.7	16.9	4941	251	205	11.6	126	0.827	0.0415	42.3
2005	92	0.005	21.8	16.7	21.6	18.6	4821	224	217	10.9	130	0.997	0.0451	45.3

Percent of Four Wheel Drive Vans:

MODEL YEAR	TRANSMISSION		FUEL METERING				DSL	VEHICLE SIZE			NUMBER OF VALVES			
	MANUAL	LOCK	FI	PORT	TBI	CARB		SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE
1985	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0				
1986	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0				
1987	77.1	22.9	67.5	67.5	0.0	32.5	0.0	100.0	0.0	0.0				
1988	89.7	10.3	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0				
1989	61.4	37.2	100.0	100.0	0.0	0.0	0.0	82.6	17.4	0.0				
1990	3.2	92.5	100.0	85.0	15.0	0.0	0.0	8.4	91.6	0.0				
1991	4.5	95.4	100.0	85.9	14.1	0.0	0.0	3.8	96.2	0.0				
1992	3.3	96.7	100.0	91.1	8.9	0.0	0.0	9.3	90.7	0.0				
1993	0.2	99.5	100.0	100.0	0.0	0.0	0.0	0.3	99.4	0.3				
1994	0.5	99.5	100.0	97.5	2.5	0.0	0.0	4.0	96.0	0.0	65.1	31.7	3.2	0.0
1995	0.4	99.6	100.0	100.0	0.0	0.0	0.0	2.9	97.1	0.0	83.0	10.9	6.2	0.0
1996	0.1	99.9	100.0	100.0	0.0	0.0	0.0	0.4	99.6	0.0	84.7	11.8	3.6	0.0
1997	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	89.8	8.0	2.2	0.0
1998	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	82.1	0.0	17.9	0.0
1999	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0
2000	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0
2001	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	28.9	71.1	100.0	0.0	0.0	0.0
2002	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0
2003	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	88.4	11.6	100.0	0.0	0.0	0.0
2004	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	90.5	9.5	93.7	0.0	6.3	0.0
2005	0.0	53.4	100.0	100.0	0.0	0.0	0.0	0.0	84.1	15.9	42.8	0.0	57.2	0.0

Appendix I

**Table I-7      Characteristics of 1975 to 2005 Front Drive SUVs**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1994	9	0.001	20.4	16.3	19.0	17.4	4000	183	160	12.0	120	0.871	0.0401	34.8
1995	0	0.000	25.6	20.0	24.5	21.8	3500	122	94	16.0	102	0.770	0.0269	38.1
1996	18	0.001	30.6	24.0	29.3	26.1	2947	122	120	11.7	116	0.984	0.0408	38.5
1997	30	0.002	29.7	23.4	28.0	25.3	2987	122	120	11.8	116	0.984	0.0402	37.7
1998	47	0.003	29.1	23.0	27.2	24.7	3204	121	125	12.1	116	1.035	0.0394	39.6
1999	75	0.005	27.5	21.7	25.9	23.4	3466	139	161	10.8	126	1.148	0.0459	40.5
2000	79	0.005	26.8	21.1	25.3	22.8	3561	145	170	10.6	128	1.163	0.0471	40.5
2001	476	0.031	24.8	18.9	24.8	21.2	3960	190	188	10.4	130	1.018	0.0479	41.8
2002	395	0.025	26.3	20.2	25.9	22.4	3658	165	180	10.2	131	1.099	0.0493	41.1
2003	473	0.030	26.5	20.4	26.0	22.6	3636	163	177	10.3	130	1.088	0.0487	41.1
2004	455	0.029	26.1	20.0	25.9	22.3	3725	179	193	9.8	134	1.084	0.0519	41.6
2005	648	0.038	26.2	20.1	25.9	22.4	3783	174	183	10.4	130	1.054	0.0483	42.4

Percent of Front Drive SUVs:

MODEL YEAR	TRANSMISSION		FUEL METERING				VEHICLE SIZE SMALL	MID	LARGE	NUMBER OF VALVES				
	MANUAL	LOCK	FI	PORT	TBI	CARB	DSL			TWO	THREE	FOUR	FIVE	
1994	54.8	45.2	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	26.2	0.0	73.8	0.0
1995	100.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0
1996	23.2	76.8	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0
1997	27.1	72.9	100.0	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0
1998	13.0	87.0	100.0	100.0	0.0	0.0	0.0	59.1	40.9	0.0	0.0	0.0	100.0	0.0
1999	5.8	94.2	100.0	100.0	0.0	0.0	0.0	36.5	63.5	0.0	0.0	0.0	100.0	0.0
2000	3.2	96.8	100.0	100.0	0.0	0.0	0.0	27.2	72.8	0.0	0.0	0.0	100.0	0.0
2001	3.7	96.3	100.0	100.0	0.0	0.0	0.0	8.5	84.1	7.4	45.5	0.0	54.5	0.0
2002	6.1	93.7	100.0	100.0	0.0	0.0	0.0	18.1	72.2	9.7	18.0	0.0	81.9	0.0
2003	7.3	82.4	100.0	100.0	0.0	0.0	0.0	11.4	83.6	5.0	7.6	0.0	92.4	0.0
2004	5.5	88.3	100.0	100.0	0.0	0.0	0.0	8.1	86.5	5.4	6.1	0.0	93.9	0.0
2005	4.9	88.1	100.0	100.0	0.0	0.0	0.0	5.2	76.1	18.7	20.4	0.0	79.6	0.0

Appendix I

**Table I-8 Characteristics of 1975 to 2005 Rear Drive SUVs**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1975	30	0.003	13.3	10.6	12.5	11.3	4374	324	148	13.8	113	0.452	0.0335	25.1
1976	36	0.003	13.2	10.3	12.6	11.2	4423	326	145	14.1	112	0.445	0.0327	25.5
1977	49	0.003	14.6	11.6	13.5	12.4	4379	317	146	13.9	113	0.461	0.0332	27.7
1978	44	0.003	13.8	10.9	13.0	11.8	4410	316	147	13.7	113	0.470	0.0334	26.4
1979	123	0.009	11.6	9.7	9.9	9.8	4915	344	144	15.6	109	0.430	0.0292	24.2
1980	21	0.002	14.5	11.4	13.6	12.3	5039	341	161	14.2	113	0.472	0.0321	31.1
1981	13	0.001	16.0	12.8	14.7	13.6	4895	326	162	13.9	114	0.497	0.0330	33.3
1982	33	0.003	20.4	16.3	19.0	17.4	4138	267	126	14.8	109	0.492	0.0313	36.0
1983	56	0.005	21.1	16.6	19.9	18.0	3921	237	122	14.5	108	0.548	0.0316	35.6
1984	93	0.007	19.8	15.3	19.3	16.9	4112	247	128	14.5	109	0.549	0.0313	35.1
1985	144	0.010	20.1	15.4	20.1	17.2	4033	237	128	14.3	109	0.571	0.0318	35.0
1986	107	0.007	19.6	15.1	19.2	16.7	4142	248	139	13.7	112	0.603	0.0338	34.7
1987	140	0.009	20.6	15.6	20.6	17.6	4074	232	151	12.7	117	0.676	0.0372	35.6
1988	158	0.010	20.7	15.8	20.7	17.7	4064	244	155	12.3	118	0.662	0.0387	35.6
1989	161	0.011	20.6	15.8	20.5	17.6	4078	262	163	11.9	121	0.641	0.0405	35.7
1990	114	0.009	20.0	15.3	19.9	17.1	4290	264	170	12.0	121	0.666	0.0400	36.3
1991	256	0.020	21.2	16.4	20.5	18.0	3918	228	151	12.5	118	0.674	0.0384	35.3
1992	277	0.023	20.9	16.2	20.2	17.8	3882	221	158	12.0	120	0.726	0.0406	34.5
1993	531	0.040	20.1	15.4	19.9	17.1	3994	247	181	11.0	127	0.745	0.0453	34.3
1994	379	0.027	20.9	16.2	20.5	17.9	3990	230	170	11.5	124	0.761	0.0427	35.4
1995	377	0.025	20.3	15.6	20.1	17.3	4179	240	168	12.0	122	0.728	0.0406	36.1
1996	529	0.040	20.6	15.7	20.4	17.5	4199	241	180	11.4	125	0.769	0.0430	36.8
1997	666	0.046	20.7	15.9	20.4	17.7	4222	240	186	11.1	126	0.800	0.0440	37.2
1998	701	0.048	20.6	15.8	20.4	17.6	4223	247	190	10.9	128	0.792	0.0450	37.1
1999	896	0.059	20.0	15.3	19.8	17.0	4455	263	203	10.8	129	0.793	0.0454	37.9
2000	954	0.058	20.3	15.6	20.0	17.3	4360	248	198	10.9	129	0.818	0.0453	37.7
2001	902	0.058	20.5	15.9	19.9	17.5	4382	244	209	10.4	132	0.878	0.0476	38.1
2002	1124	0.070	20.1	15.4	20.0	17.1	4626	256	229	10.1	136	0.905	0.0496	39.5
2003	1042	0.066	19.7	15.1	19.7	16.8	4901	270	244	10.0	138	0.911	0.0501	41.1
2004	1121	0.070	19.7	15.0	19.7	16.8	4894	277	255	9.7	141	0.930	0.0525	41.0
2005	953	0.056	20.1	15.3	20.2	17.1	4931	272	257	9.7	141	0.950	0.0521	42.2

Percent of Rear Drive SUVs:

MODEL YEAR	FUEL METERING						DSL	VEHICLE SIZE			NUMBER OF VALVES			
	TRANSMISSION MANUAL	LOCK	FI	PORT	TBI	CARB		SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE
1975	33.4	0.0	0.0	0.0	100.0	0.0	0.0	21.1	47.9	31.1				
1976	35.8	0.0	0.0	0.0	100.0	0.0	0.0	23.6	41.7	34.7				
1977	42.3	0.0	0.0	0.0	100.0	0.0	0.0	30.3	41.1	28.6				
1978	46.4	0.0	0.0	0.0	100.0	0.0	0.0	30.1	37.4	32.5				
1979	19.9	1.8	0.0	0.0	0.0	100.0	0.0	10.8	14.7	74.5				
1980	14.9	84.2	0.0	0.0	0.0	100.0	0.0	0.0	20.4	79.6				
1981	2.3	97.7	0.0	0.0	0.0	100.0	0.0	0.0	19.6	80.4				
1982	1.7	60.7	0.0	0.0	0.0	76.5	23.5	32.9	20.7	46.4				
1983	11.6	63.9	0.0	0.0	0.0	88.6	11.4	22.6	39.5	38.0				
1984	11.5	74.6	0.0	0.0	0.0	94.4	5.6	3.3	60.3	36.4				
1985	9.7	78.8	3.3	0.0	0.0	94.2	2.5	0.0	72.6	27.4				
1986	10.0	86.0	48.0	0.0	47.9	49.7	2.3	0.0	63.4	36.5				
1987	9.6	87.6	92.5	22.1	70.4	6.7	0.9	16.3	57.8	25.9				
1988	17.0	81.3	98.9	33.3	65.6	0.4	0.7	24.3	49.8	25.8				
1989	19.5	78.5	98.5	29.9	68.6	0.9	0.6	21.4	52.7	25.9				
1990	20.9	73.9	96.3	38.5	57.8	2.9	0.7	23.7	40.2	36.2				
1991	20.0	79.2	99.0	45.3	53.7	0.7	0.3	18.3	72.0	9.8				
1992	22.5	77.5	98.9	63.6	35.3	1.1	0.0	17.4	73.8	8.8				
1993	10.2	89.8	99.4	83.0	16.4	0.6	0.0	9.1	82.3	8.6				
1994	17.6	75.8	100.0	78.4	21.6	0.0	0.0	16.3	68.9	14.8	91.6	0.0	8.4	0.0
1995	15.2	84.8	100.0	77.5	22.5	0.0	0.0	6.7	76.1	17.1	88.8	0.0	11.2	0.0
1996	10.2	89.8	100.0	100.0	0.0	0.0	0.0	4.4	84.5	11.1	74.8	0.0	25.2	0.0
1997	11.5	85.2	100.0	100.0	0.0	0.0	0.0	11.4	66.3	22.3	66.6	0.0	33.4	0.0
1998	6.8	93.2	100.0	100.0	0.0	0.0	0.0	7.9	63.1	28.9	74.5	5.6	19.8	0.0
1999	4.4	95.6	100.0	100.0	0.0	0.0	0.0	4.3	56.2	39.5	77.1	4.0	19.0	0.0
2000	3.6	96.4	100.0	100.0	0.0	0.0	0.0	11.5	54.3	34.2	73.7	0.0	26.3	0.0
2001	3.4	96.6	100.0	100.0	0.0	0.0	0.0	11.6	46.7	41.7	74.4	0.0	25.6	0.0
2002	2.3	97.7	100.0	100.0	0.0	0.0	0.0	3.9	35.3	60.8	63.2	0.0	36.8	0.0
2003	1.0	99.0	100.0	100.0	0.0	0.0	0.0	0.6	36.3	63.1	64.6	0.0	35.4	0.0
2004	0.9	99.1	100.0	100.0	0.0	0.0	0.0	0.9	33.5	65.6	60.6	0.0	39.4	0.0
2005	0.9	99.1	100.0	100.0	0.0	0.0	0.0	0.4	34.9	64.7	52.2	9.9	37.9	0.0

Appendix I

**Table I-9 Characteristics of 1975 to 2005 Four Wheel Drive SUVs**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	CITY 55/45	ADJ CITY	ADJ HWY								
1975	157	0.015	12.9	10.6	11.5	11.0	4169	329	145	13.2	115	0.440	0.0361	22.6
1976	208	0.017	13.9	11.3	12.5	11.8	4293	337	140	14.0	112	0.412	0.0332	25.1
1977	234	0.017	15.2	12.3	13.7	12.9	4200	335	143	13.5	113	0.425	0.0345	26.9
1978	336	0.023	14.5	11.7	13.2	12.3	4251	342	149	13.2	115	0.433	0.0353	26.0
1979	278	0.020	13.0	10.8	11.4	11.1	4329	325	143	13.9	113	0.442	0.0336	23.9
1980	164	0.014	15.7	12.6	14.2	13.3	4135	289	127	14.8	108	0.451	0.0306	27.6
1981	123	0.012	16.9	13.5	15.6	14.4	4134	286	128	14.5	109	0.456	0.0313	29.8
1982	129	0.013	17.0	13.6	15.8	14.5	4403	300	130	15.1	108	0.443	0.0300	32.7
1983	233	0.023	18.6	14.6	17.8	15.9	4188	257	124	15.1	107	0.513	0.0300	33.8
1984	531	0.038	19.2	15.1	18.2	16.3	3979	223	119	15.1	107	0.561	0.0299	33.0
1985	592	0.041	19.7	15.4	19.1	16.8	4014	210	120	15.1	107	0.594	0.0297	34.2
1986	666	0.043	20.3	15.9	19.3	17.3	3885	200	125	14.2	110	0.666	0.0323	33.9
1987	733	0.049	20.7	16.1	19.8	17.6	3795	204	134	13.4	113	0.688	0.0352	33.5
1988	810	0.053	20.4	15.9	19.5	17.4	3819	214	141	12.9	115	0.691	0.0370	33.2
1989	765	0.053	19.8	15.5	19.0	16.9	4005	237	153	12.5	118	0.671	0.0385	34.0
1990	594	0.047	19.8	15.4	19.1	16.9	3998	226	151	12.6	117	0.701	0.0381	33.7
1991	839	0.067	20.1	15.5	19.6	17.1	4117	230	160	12.3	119	0.712	0.0391	35.4
1992	726	0.060	19.5	15.1	19.1	16.6	4162	232	168	11.9	122	0.741	0.0409	34.6
1993	780	0.059	19.7	15.3	19.3	16.8	4267	239	177	11.6	124	0.761	0.0421	35.9
1994	1235	0.087	19.4	15.0	18.9	16.6	4278	240	179	11.6	124	0.763	0.0422	35.5
1995	1439	0.095	19.4	15.0	18.9	16.5	4275	241	178	11.6	124	0.761	0.0420	35.4
1996	1343	0.102	19.7	15.1	19.5	16.8	4335	258	188	11.3	126	0.744	0.0436	36.5
1997	1754	0.121	19.8	15.3	19.3	16.9	4392	250	187	11.4	125	0.770	0.0426	37.0
1998	1833	0.127	19.7	15.2	19.5	16.9	4414	249	188	11.4	126	0.781	0.0428	37.3
1999	1859	0.122	20.0	15.4	19.5	17.0	4411	241	197	11.0	128	0.847	0.0448	37.6
2000	2110	0.127	19.8	15.3	19.3	16.9	4536	247	202	11.0	128	0.842	0.0446	38.3
2001	2072	0.133	20.2	15.7	19.7	17.3	4472	232	208	10.6	131	0.930	0.0466	38.6
2002	2671	0.166	20.2	15.5	19.8	17.2	4585	238	224	10.2	135	0.962	0.0489	39.5
2003	2602	0.165	20.5	15.7	20.3	17.5	4672	239	227	10.2	135	0.978	0.0487	40.8
2004	3072	0.193	20.7	15.8	20.6	17.7	4682	243	235	10.0	137	0.987	0.0502	41.3
2005	2842	0.166	20.8	15.9	20.7	17.7	4752	243	242	9.9	138	1.014	0.0507	42.1

Percent of Four Wheel Drive SUVs:

MODEL YEAR	TRANSMISSION MANUAL	LOCK	FUEL METERING				DSL	VEHICLE SIZE			NUMBER OF VALVES			
			FI	PORT	TBI	CARB		SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE
1975	42.9	0.0	0.0	0.0	0.0	100.0	0.0	30.0	69.1	0.9				
1976	33.6	0.0	0.0	0.0	0.0	100.0	0.0	24.7	73.5	1.8				
1977	34.6	0.0	0.0	0.0	0.0	100.0	0.0	24.3	74.3	1.4				
1978	32.8	0.0	0.0	0.0	0.0	100.0	0.0	23.1	75.3	1.6				
1979	39.2	0.0	0.0	0.0	0.0	99.7	0.3	32.8	60.9	6.3				
1980	47.2	18.8	0.0	0.0	0.0	97.4	2.6	37.0	58.7	4.3				
1981	45.0	35.1	0.0	0.0	0.0	100.0	0.0	34.7	62.4	2.9				
1982	37.0	37.4	0.0	0.0	0.0	86.8	13.2	24.5	70.7	4.8				
1983	37.0	48.2	0.0	0.0	0.0	94.4	5.6	18.3	77.7	4.0				
1984	32.5	37.4	0.0	0.0	0.0	98.3	1.7	26.7	70.5	2.8				
1985	32.3	55.6	5.9	0.0	0.0	92.9	1.2	19.5	77.5	3.0				
1986	41.7	50.9	49.9	27.8	22.1	48.7	1.4	26.5	70.6	2.9				
1987	42.1	48.5	71.5	35.1	36.3	28.2	0.3	31.6	65.6	2.8				
1988	36.6	55.3	81.2	50.2	31.1	18.6	0.2	30.8	65.7	3.5				
1989	27.5	63.8	92.4	49.5	42.9	7.4	0.2	25.3	70.5	4.2				
1990	31.3	65.0	94.2	60.9	33.3	5.6	0.2	27.4	67.5	5.2				
1991	22.4	76.0	99.4	63.9	35.5	0.4	0.1	10.6	85.9	3.5				
1992	22.4	76.7	100.0	76.7	23.3	0.0	0.0	11.1	81.9	7.0				
1993	20.2	78.8	100.0	87.5	12.5	0.0	0.0	12.2	77.1	10.7				
1994	15.9	84.1	100.0	88.5	11.5	0.0	0.0	10.2	80.6	9.2	86.0	5.6	8.4	0.0
1995	15.3	84.7	100.0	87.8	12.2	0.0	0.0	11.4	77.1	11.5	83.2	0.0	16.8	0.0
1996	6.2	93.8	100.0	100.0	0.0	0.0	0.0	5.9	80.5	13.6	88.2	0.0	11.8	0.0
1997	11.4	88.6	100.0	100.0	0.0	0.0	0.0	21.8	54.7	23.4	80.5	0.0	19.5	0.0
1998	8.5	91.5	100.0	100.0	0.0	0.0	0.0	12.7	63.4	24.0	79.6	0.0	20.4	0.0
1999	7.3	92.7	100.0	100.0	0.0	0.0	0.0	13.4	65.1	21.5	73.1	0.9	26.0	0.0
2000	5.8	94.2	100.0	100.0	0.0	0.0	0.0	12.7	61.0	26.2	76.5	0.0	23.5	0.0
2001	4.8	95.2	100.0	100.0	0.0	0.0	0.0	11.9	54.2	34.0	56.5	1.9	41.5	0.0
2002	4.1	95.8	100.0	100.0	0.0	0.0	0.0	8.9	41.9	49.1	52.4	1.6	46.0	0.0
2003	2.9	95.3	100.0	100.0	0.0	0.0	0.0	7.8	50.7	41.4	45.1	1.4	53.5	0.0
2004	4.7	93.6	100.0	100.0	0.0	0.0	0.0	9.5	50.4	40.1	46.1	0.9	52.7	0.3
2005	2.4	95.7	100.0	100.0	0.0	0.0	0.0	4.7	47.0	48.2	42.2	3.4	53.9	0.5

Appendix I

**Table I-10 Characteristics of 1975 to 2005 Front Drive Pickups**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45		CID	HP					
1980	26	0.002	31.3	24.8	29.4	26.7	2265	94	65	15.8	99	0.685	0.0286	32.0
1981	33	0.003	36.9	29.1	34.8	31.4	2318	99	59	16.9	96	0.592	0.0253	37.1
1982	32	0.003	33.0	25.8	31.7	28.1	2439	119	72	15.2	101	0.605	0.0295	35.1
1983	31	0.003	31.1	23.8	31.0	26.5	2604	133	89	13.5	107	0.665	0.0341	34.8
1984	12	0.001	28.1	21.2	28.6	24.0	2640	135	90	13.3	107	0.667	0.0342	31.7
1987	0	0.000	20.0	14.7	21.5	17.1	4000	249	135	13.7	112	0.542	0.0337	34.2
1988	0	0.000	20.8	15.4	22.2	17.8	4000	275	155	12.2	119	0.564	0.0387	35.7
1993	0	0.000	20.9	15.0	23.4	17.9	4500	299	200	10.9	128	0.669	0.0444	40.3

Percent of Front Drive Pickups:

MODEL YEAR	FUEL METERING					VEHICLE SIZE			NUMBER OF VALVES					
	TRANSMISSION MANUAL	LOCK	FI	PORT	TBI	CARB	DSL	SMALL	MID	LARGE	TWO	THREE	FOUR	FIVE
1980	94.0	0.0	57.3	0.0	0.0	0.0	42.7	100.0	0.0	0.0				
1981	100.0	0.0	27.2	0.0	0.0	0.0	72.8	100.0	0.0	0.0				
1982	77.4	0.0	10.7	0.0	0.0	55.3	34.0	100.0	0.0	0.0				
1983	55.7	0.0	2.8	0.0	0.0	94.5	2.7	100.0	0.0	0.0				
1984	71.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0				
1987	0.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0				
1988	0.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0				
1993	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0				

## Appendix I

**Table I-11 Characteristics of 1975 to 2005 Rear Drive Pickups**

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1975	1161	0.114	14.5	11.4	13.8	12.4	3885	299	139	13.4	114	0.499	0.0355	24.6
1976	1476	0.120	15.4	12.3	14.2	13.1	3948	305	136	13.8	112	0.476	0.0343	26.5
1977	1593	0.113	16.8	13.5	15.3	14.2	3928	299	141	13.2	115	0.508	0.0359	28.7
1978	1656	0.115	16.7	13.6	15.0	14.2	3901	291	138	13.3	114	0.506	0.0352	28.6
1979	1930	0.139	15.5	12.7	13.8	13.2	4170	291	136	14.3	111	0.495	0.0327	28.1
1980	1108	0.098	20.1	16.0	18.6	17.1	3689	235	117	14.3	108	0.545	0.0318	31.8
1981	1164	0.110	21.1	16.7	19.6	17.9	3707	243	117	14.4	108	0.511	0.0316	33.7
1982	1154	0.119	22.0	17.4	20.6	18.7	3595	230	117	14.1	109	0.542	0.0326	34.2
1983	1238	0.120	22.6	17.9	21.3	19.2	3463	210	111	14.3	108	0.564	0.0320	34.0
1984	1526	0.109	22.1	17.4	20.9	18.8	3519	212	112	14.4	108	0.562	0.0318	33.6
1985	1550	0.107	21.9	17.3	20.6	18.7	3527	218	121	13.6	111	0.585	0.0340	33.5
1986	1895	0.123	23.0	18.2	21.6	19.6	3439	201	117	13.6	110	0.619	0.0340	34.0
1987	1598	0.108	23.5	18.4	22.4	20.0	3385	195	119	13.4	111	0.635	0.0348	34.2
1988	1760	0.115	22.5	17.6	21.6	19.2	3578	220	130	13.1	113	0.620	0.0360	34.6
1989	1586	0.110	22.2	17.3	21.3	18.9	3633	226	137	12.7	115	0.630	0.0373	34.6
1990	1322	0.105	21.7	16.9	21.1	18.5	3759	236	146	12.4	117	0.651	0.0386	35.2
1991	1443	0.115	22.9	17.7	22.3	19.5	3608	222	139	12.4	116	0.656	0.0383	35.4
1992	1356	0.111	21.9	16.9	21.6	18.7	3810	235	145	12.5	117	0.645	0.0380	35.9
1993	1449	0.110	22.2	17.1	21.9	18.9	3825	234	150	12.2	118	0.668	0.0391	36.4
1994	1886	0.134	22.3	17.2	21.8	19.0	3861	235	156	12.0	120	0.695	0.0403	36.9
1995	1521	0.100	21.8	16.8	21.5	18.6	3960	239	158	12.0	120	0.703	0.0399	37.3
1996	1382	0.105	22.0	16.9	21.7	18.8	3992	235	167	11.7	122	0.744	0.0416	37.9
1997	1574	0.109	21.9	16.8	21.7	18.7	4123	244	184	11.2	126	0.770	0.0440	38.8
1998	1574	0.109	22.3	17.1	22.1	19.0	4021	231	177	11.3	125	0.788	0.0436	38.5
1999	1392	0.091	21.5	16.5	21.4	18.4	4113	241	186	11.0	127	0.787	0.0448	37.9
2000	1610	0.097	21.6	16.6	21.2	18.4	4113	237	190	11.0	128	0.810	0.0455	37.9
2001	1544	0.099	20.7	15.9	20.4	17.7	4341	252	204	10.7	130	0.818	0.0464	38.4
2002	1373	0.085	20.5	15.8	20.0	17.5	4473	256	214	10.5	132	0.841	0.0475	39.1
2003	1498	0.095	21.0	16.2	20.5	17.9	4445	247	206	10.8	130	0.843	0.0459	39.8
2004	1017	0.064	21.0	16.2	20.5	17.9	4535	257	226	10.2	135	0.885	0.0495	40.5
2005	1404	0.082	20.8	15.9	20.7	17.7	4674	267	242	9.9	139	0.910	0.0515	41.5

Percent of Rear Drive Pickups:

MODEL YEAR	TRANSMISSION MANUAL	FUEL METERING LOCK					VEHICLE SIZE SMALL	MID	LARGE	NUMBER OF VALVES			
			FI	PORT	TBI	CARB	DSL			TWO	THREE	FOUR	FIVE
1975	41.5	0.0	0.0	0.0	0.0	100.0	0.0	13.8	4.8	81.4			
1976	40.3	0.0	0.0	0.0	0.0	100.0	0.0	11.7	3.7	84.6			
1977	39.0	0.0	0.0	0.0	0.0	100.0	0.0	15.1	4.1	80.8			
1978	40.0	0.0	0.0	0.0	0.0	98.4	1.6	14.5	4.5	80.9			
1979	36.3	1.5	0.0	0.0	0.0	97.2	2.8	13.7	5.2	81.1			
1980	55.8	23.4	0.0	0.0	0.0	95.7	4.3	28.4	8.8	62.8			
1981	52.6	31.0	0.0	0.0	0.0	93.8	6.2	18.8	11.2	70.0			
1982	49.4	32.9	0.0	0.0	0.0	90.2	9.8	18.0	26.2	55.8			
1983	53.3	31.1	0.0	0.0	0.0	95.7	4.3	14.9	41.5	43.6			
1984	52.1	32.9	1.3	0.0	0.0	96.0	2.7	17.9	37.0	45.0			
1985	47.9	36.2	16.6	0.0	0.4	82.2	1.1	21.9	31.9	46.2			
1986	56.7	30.8	36.1	18.6	17.5	63.3	0.6	27.5	34.6	37.9			
1987	58.0	28.4	56.7	23.7	33.1	43.0	0.3	19.4	52.3	28.3			
1988	51.5	37.9	78.8	30.1	48.7	21.0	0.1	11.9	48.1	40.0			
1989	52.5	41.5	86.4	34.0	52.4	13.5	0.1	13.9	45.5	40.7			
1990	46.2	49.1	91.5	52.0	39.6	8.3	0.1	15.0	37.8	47.2			
1991	53.7	44.9	95.7	46.1	49.6	4.2	0.1	14.0	51.5	34.5			
1992	48.3	50.6	95.5	57.4	38.1	4.4	0.1	11.7	44.6	43.7			
1993	45.2	53.7	97.1	60.6	36.5	2.9	0.0	13.2	42.1	44.7			
1994	42.3	56.4	98.9	72.5	26.4	1.1	0.0	11.5	45.8	42.7	99.3	0.7	0.1
1995	45.2	53.4	100.0	72.9	27.1	0.0	0.0	12.2	38.9	48.9	96.4	0.0	3.6
1996	38.5	59.6	99.9	99.9	0.0	0.0	0.1	10.1	43.3	46.6	88.3	5.3	6.4
1997	31.2	68.8	100.0	100.0	0.0	0.0	0.0	6.6	36.2	57.2	92.6	6.6	0.9
1998	31.3	66.4	100.0	100.0	0.0	0.0	0.0	10.0	42.2	47.9	89.7	0.0	10.3
1999	22.6	75.7	100.0	100.0	0.0	0.0	0.0	8.4	39.2	52.4	91.6	0.0	8.4
2000	20.4	78.3	100.0	100.0	0.0	0.0	0.0	6.2	33.8	59.9	87.7	0.0	12.3
2001	14.5	84.1	100.0	100.0	0.0	0.0	0.0	5.3	24.5	70.2	86.2	0.0	13.8
2002	11.4	87.1	100.0	100.0	0.0	0.0	0.0	9.6	19.8	70.6	78.9	0.0	21.1
2003	12.3	86.2	100.0	100.0	0.0	0.0	0.0	7.9	25.2	67.0	84.2	0.0	15.8
2004	8.2	88.4	100.0	100.0	0.0	0.0	0.0	8.9	21.3	69.9	70.5	2.3	27.1
2005	12.5	87.5	100.0	100.0	0.0	0.0	0.0	0.3	16.6	83.0	62.0	9.4	28.7

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**Table I-12 Characteristics of 1975 to 2005 Four Wheel Drive Pickups**

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->					WGHT LB	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45	ADJ 55/45								
1975	182	0.018	11.4	9.3	10.2	9.7	4822	353	154	14.2	113	0.437	0.0322	23.6
1976	390	0.032	12.4	10.1	11.2	10.5	4780	359	154	14.2	113	0.428	0.0323	25.3
1977	433	0.031	13.6	11.1	12.1	11.5	4695	363	164	13.4	116	0.452	0.0351	27.2
1978	612	0.042	13.5	11.1	12.0	11.5	4654	348	160	13.5	115	0.468	0.0345	26.8
1979	277	0.020	15.6	13.0	14.2	13.5	3947	260	132	14.2	110	0.551	0.0325	27.3
1980	302	0.027	16.9	13.6	15.4	14.3	4054	251	126	14.6	108	0.552	0.0308	29.1
1981	242	0.023	19.6	15.7	18.1	16.7	3732	224	115	14.6	107	0.561	0.0307	31.4
1982	255	0.026	19.7	15.8	18.2	16.8	3934	236	119	14.7	107	0.552	0.0306	33.5
1983	359	0.035	20.3	16.1	19.0	17.3	3901	224	117	14.8	107	0.564	0.0301	34.1
1984	505	0.036	19.7	15.6	18.4	16.8	3943	226	120	14.8	107	0.564	0.0302	33.5
1985	528	0.037	19.9	15.7	18.7	16.9	3981	230	129	14.0	110	0.597	0.0323	34.1
1986	638	0.042	20.2	16.0	19.0	17.2	3974	219	130	14.0	110	0.634	0.0327	34.5
1987	548	0.037	20.0	15.8	18.8	17.1	3937	222	137	13.4	113	0.648	0.0347	33.8
1988	699	0.046	19.3	15.1	18.4	16.4	4137	253	156	12.6	117	0.644	0.0375	34.2
1989	645	0.045	19.0	14.9	18.1	16.2	4221	259	158	12.7	117	0.638	0.0372	34.4
1990	512	0.041	18.6	14.4	18.0	15.8	4364	273	166	12.5	119	0.637	0.0380	34.7
1991	477	0.038	18.9	14.7	18.3	16.1	4299	262	167	12.2	120	0.666	0.0388	34.8
1992	484	0.040	18.5	14.3	18.1	15.8	4442	272	167	12.6	119	0.638	0.0376	35.2
1993	553	0.042	18.8	14.5	18.3	16.0	4444	270	172	12.3	120	0.661	0.0386	35.6
1994	783	0.055	18.6	14.4	18.1	15.8	4528	278	180	12.1	122	0.668	0.0396	35.9
1995	750	0.050	18.0	13.9	17.6	15.4	4633	292	185	11.9	123	0.655	0.0400	35.7
1996	573	0.044	18.3	14.1	18.0	15.6	4668	291	204	11.2	128	0.719	0.0437	36.5
1997	834	0.058	18.2	13.9	18.1	15.5	4965	302	218	11.1	129	0.729	0.0439	38.5
1998	841	0.058	18.3	14.0	18.2	15.6	4771	291	213	11.0	130	0.745	0.0445	37.2
1999	1152	0.076	18.2	14.1	17.8	15.6	4937	299	227	10.8	132	0.763	0.0459	38.3
2000	1003	0.061	18.9	14.7	18.3	16.1	4705	284	224	10.5	133	0.791	0.0473	37.9
2001	975	0.062	18.1	14.0	17.6	15.5	4885	295	235	10.3	135	0.802	0.0481	37.8
2002	1008	0.063	18.2	14.1	17.7	15.5	4985	291	242	10.3	136	0.834	0.0486	38.7
2003	976	0.062	18.5	14.3	18.0	15.8	4944	291	248	10.1	138	0.855	0.0500	39.0
2004	996	0.063	19.1	14.8	18.6	16.3	4957	276	240	10.3	136	0.871	0.0483	40.4
2005	1058	0.062	19.1	14.7	18.7	16.3	5211	294	272	9.7	142	0.925	0.0521	42.4

Percent of Four Wheel Drive Pickups:

MODEL YEAR	FUEL METERING					DSL	VEHICLE SIZE			NUMBER OF VALVES				
	TRANSMISSION MANUAL	LOCK	FI	PORT	TBI		CARB	DSL	SMALL	MID	LARGE	TWO	THREE	FOUR
1975	38.4	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0			
1976	33.3	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0			
1977	24.7	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0			
1978	30.2	0.0	0.0	0.0	100.0	0.0	0.0	0.0	3.8	0.0	96.2			
1979	64.9	0.0	0.0	0.0	100.0	0.0	34.0	0.0	0.0	0.0	66.0			
1980	66.8	18.6	0.0	0.0	0.0	99.7	0.3	36.7	0.0	0.0	63.3			
1981	76.4	14.7	0.0	0.0	0.0	97.7	2.3	48.1	0.0	0.0	51.9			
1982	71.4	17.7	0.0	0.0	0.0	90.4	9.6	41.8	5.1	53.1				
1983	66.6	19.9	0.1	0.0	0.0	95.2	4.8	26.8	30.0	43.2				
1984	62.7	19.1	0.1	0.0	0.0	97.2	2.7	27.2	27.3	45.5				
1985	62.4	26.2	13.8	0.0	0.0	84.6	1.5	29.8	23.1	47.1				
1986	63.3	29.4	46.7	29.0	17.7	52.5	0.7	34.9	20.7	44.4				
1987	59.9	30.1	65.3	36.4	28.8	34.4	0.4	23.8	39.4	36.7				
1988	49.7	40.9	95.8	48.7	47.1	3.8	0.4	18.7	29.9	51.4				
1989	52.3	41.5	98.3	50.5	47.8	1.5	0.3	20.9	25.7	53.4				
1990	44.9	51.7	99.7	53.5	46.1	0.0	0.3	17.8	19.6	62.6				
1991	47.5	50.8	99.6	53.5	46.1	0.0	0.4	22.5	27.2	50.3				
1992	43.7	56.2	99.7	59.7	40.0	0.0	0.3	19.2	22.9	57.9				
1993	40.5	59.5	100.0	62.9	37.1	0.0	0.0	12.9	24.2	63.0				
1994	34.6	65.4	100.0	62.2	37.8	0.0	0.0	18.1	22.5	59.5	94.3	5.7	0.0	0.0
1995	28.3	71.7	100.0	62.8	37.2	0.0	0.0	15.0	14.5	70.5	90.5	0.0	9.5	0.0
1996	25.5	74.5	99.6	99.6	0.0	0.0	0.4	14.1	17.4	68.5	82.9	2.8	14.3	0.0
1997	14.0	86.0	99.9	99.9	0.0	0.0	0.1	3.3	14.4	82.4	94.7	3.3	2.0	0.0
1998	19.9	80.1	99.9	99.9	0.0	0.0	0.1	12.3	19.7	68.1	87.0	0.0	13.0	0.0
1999	11.4	88.6	100.0	100.0	0.0	0.0	0.0	8.4	18.6	73.0	93.1	0.0	6.9	0.0
2000	10.7	89.3	100.0	100.0	0.0	0.0	0.0	0.1	22.0	77.9	86.7	0.0	13.3	0.0
2001	8.0	92.0	100.0	100.0	0.0	0.0	0.0	0.0	17.0	83.0	88.9	0.0	11.1	0.0
2002	7.0	93.0	100.0	100.0	0.0	0.0	0.0	6.4	19.3	74.2	86.8	0.0	13.2	0.0
2003	7.3	92.7	100.0	100.0	0.0	0.0	0.0	7.8	15.4	76.8	87.6	0.0	12.4	0.0
2004	6.1	93.9	100.0	100.0	0.0	0.0	0.0	7.2	16.5	76.3	80.6	3.3	16.1	0.0
2005	6.6	93.4	100.0	100.0	0.0	0.0	0.0	0.8	8.9	90.4	59.5	17.3	23.3	0.0